	Application No.	Applicant(s)
Notice of Allowability		
	10/749,919 Examiner	YAN ET AL. Art Unit
	Y. J. Han	2838
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>a case filed on 12/31/</u>	<u>′03</u> .	
2. The allowed claim(s) is/are <u>1-20</u> .		
3. \boxtimes The drawings filed on <u>31 December 2003</u> are accepted by	the Examiner.	
4. ☑ Acknowledgment is made of a claim for foreign priority una) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give for CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara t be submitted. on's Patent Drawing Review (PTO-	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient.
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawir ne header according to 37 CFR 1.121(ngs in the front (not the back) of d).
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	
4. Examiner's Comment Regarding Requirement for Deposit	· -	ent of Reasons for Allowance
of Biological Material	9. 🗌 Other	J. Han Primary Examiner Art Unit: 2838

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Claim 1 recites, inter alia, a set of inductances comprising a first inductance and a second inductance that connect in series and are coupled with each other, a terminal of said first inductance connected to a connection point at which said third switch and said fourth switch are connected in series and a terminal of said second inductance coupled to said clamp circuit; a transformer comprising a primary winding and a secondary winding, said primary winding connected between a first connection point at which said first switch and said second switch are connected in series and a second connection point at which said first inductance and said second inductance are connected in series; and an output rectifier circuit comprising a rectifier, a filtering capacitor, and a filtering inductance, said output rectifier circuit connected to said secondary winding; wherein when a current in said rectifier is changing a direction of said current, a reverse recovery current of a rectifier diode of said rectifier reflects to a primary side of said transformer and forms an induced current flowing through said first inductance and said primary winding, when said reverse recovery current of said rectifier diode is cut off, said induced current decreases and passes through said set of inductances and said clamp circuit.

Claim 11 recites, inter alia, a set of inductances comprising a first inductance and a second inductance that connect in series and is coupled with each other, a terminal of said first inductance connected to a connection point at which said second switch and said third switch are connected, and a terminal of said second inductance coupled to said clamp circuit; a transformer

comprising a primary winding and a secondary winding, said primary winding connected between a connection point at which said first diode and said second diode are connected and a connection point at which said first inductance and said second inductance are connected; and an output rectifier circuit comprising a rectifier, a filtering capacitor, and a filtering inductance, said output rectifier circuit connected to said secondary winding; wherein when a current in said rectifier is changing a direction of said current, a reverse recovery current of a rectifier diode of said rectifier reflects to a primary side of said transformer and forms an induced current flowing through said first inductance and said primary winding, when said reverse recovery current of said rectifier diode is cut off, said induced current decreases and passes through said set of inductances and said clamp circuit.

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include either of the above limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. J. Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 5:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J. Han

Primary Examiner Art Unit 2838